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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,591	08/19/2003	Takaaki Isshiki	0020-5166P	2938
2292 7590 03/14/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
			THALER, MICHAEL H	
FALLS CHURC	H, VA 22040-0747		ART UNIT	PAPER NUMBER
			3731	
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MON	THS	03/14/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Se S				
	Application No.	Applicant(s)				
	10/642,591	ISSHIKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Thaler	3731				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value is a failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 27 D	ecember 2006.					
2a)⊠ This action is FINAL . 2b)☐ This)⊠ This action is FINAL . 2b) ☐ This action is non-final.					
,	/					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	.53 O.G. 213.				
Disposition of Claims						
4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1 and 3-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) åre subject to restriction and/o		·				
Application Papers						
9) The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the	* ' '					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a	a)-(d) or (f).				
1. Certified copies of the priority document						
2. Certified copies of the priority document						
 Copies of the certified copies of the prio application from the International Burea 	·	red in this National Stage				
* See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	red.				
des the attached detailed office action for a list	C 35, 35 55, 55 115, 13561V					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					

Paper No(s)/Mail Date _

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other: _

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Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The phrase "filed thereto said inner and outer rings" in line 4 is unclear and is not understood.

Claims 1, 3, 4, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khosravi (6,361,546) in view of Brooks et al. (6,346,116). Khosravi discloses sheath 52 being closed at the proximal end (by the narrow proximal region described in col. 5, lines 19-25), a flexible shaft (the combination of shaft 12 and member 54 which is attached thereto as indicated in col. 5, lines 32-35, and noting that shaft 12 is flexible in the embodiment described in col. 4, lines 13-16 due articulations therein), thrombus capture member 14, 16 comprising a plurality of wires 24 forming a frame and having a configuration swollen in the middle portion and mounted slidably on shaft 12 at the distal end but fixed on the shaft at the proximal end thereof (col. 4, lines 24-27). Khosravi fails to disclose the filter frame wires 24 as being spiral and crossed with one another. However, Brooks et al. teach that filter frame wires 56 for supporting an endovascular filter membrane should be spiral and crossed with one another (col. 4, lines 37-43) apparently in order to obtain the advantage of better Application/Control Number: 10/642,591

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supporting the filter membrane around its circumference. Ιt would have been obvious to make the Khosravi filter frame wires 24 spiral and crossed with one another so that it too would have this advantage. As to claim 4, Khosravi fails to disclose a However, it is old and well known to use hemostatic valve. hemostatic valve in surgical devices in order to obtain the advantage of preventing blood loss. It would have been obvious to include a hemostatic valve in the Khosravi device so that it too would have this advantage. The proximal portion of shaft 12 of Khosravi protrudes from the sheath 52 when the shaft 12 is inserted therein as described in col. 5, lines 51-56. The above well known in the art statement is taken to be admitted prior applicant failed to traverse the examiner's because 2144.03). to claim 7, assertion (M.P.E.P. As understood, Khosravi fails to disclose the slide ring assembly as comprising an inner ring and an outer ring with the wires sandwiched therebetween. However, it is old and well known in this art to secure wires between inner and outer rings in order to obtain the advantage of providing a strong attachment between the wires and ring assembly. It would have been obvious to so construct the sliding ring in the Khosravi device so that it too would have this advantage.

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Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Khosravi (6,361,546) in view of Brooks et al. (6,346,116) as applied to claim 1 above, and further in view of Rosenbluth (WO 99/56801). As to claim 5, Khosravi fails to disclose a side hole and second lumen in the sheath. However, Rosenbluth teaches that a sheath 11''' intravascular filter should include a side hole 310 and second lumen 309 in order to obtain the advantage of permitting rapid exchange of the sheath (page 18, lines 13-22). It would have been obvious to include a side hole and second lumen in the Khosravi sheath so that it too would have this advantage. claim 6, Khosravi fails to disclose a side infusion tube. sheath Rosenbluth teaches that a 11 intravascular filter should include a side infusion port attached thereto in order to obtain the advantage of permitting injection of contrast medium into the vessel (page 15, lines 15-24). It would have been obvious to include a side infusion port in the Khosravi device so that it too would have this advantage.

Applicant's arguments filed Dec. 27, 2006 have been fully considered but they are not persuasive. The allegation on page 8 of the remarks that Brooks et al. fail to disclose struts or helical members crossed with one another is incorrect. The embodiment described in col. 4, lines 37-43 clearly includes

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helical members crossed with one another since the members are described as being braided (i.e. with a dense braid on the distal portion and a less dense braid on the proximal portion) and are shown in figure 4 as being helical. Braided members, by definition, cross one another.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Thaler whose telephone number is (571) 272-4704. The examiner can normally be reached Monday to Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

mht

MICHAEL THALER
PRIMARY EXAMINER
ART UNIT 3731